

Bridge Inspection									
Bridge File Number	13370 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1958/1958				Lot No.	2			
Bridge or Town Name	SCANDIA				Inspector Name	Jason Rusu			
Located Over	BOW RIVER, 2.13, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	36:06 C1 0.006				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Dec-2011			
Legal Land Location	NW SEC 12 TWP 15 RGE 16 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-112:04:47, 50:14:44				Data Entry Date	24-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA24				Review Date	26-Dec-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,580 / 2010 (A)				Dept. Review Date	06-Feb-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	25								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> 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)	Yes								
Remarks									
Other Sign Types	Bridge ices, river i.d								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Conduit under West curb				Gas				
Power					Municipal				
Others	Fibre optics @ West ROW				Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	GRADUAL SAG CURVE.					
Vertical Alignment		6	6						
Roadway Width (m)		11.200							
Approach Bump		5	6						
Guardrail (Y/N)		Yes							
Guardrail		7	7						
Length (m)		50.000							
Current Standard (Y/N)		No		Not thriebeam					
Termination Type		turned down							
Drainage		7	7						
Approach Road General Rating		6	6						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : CT, 8 Spans, Lengths(m): 25.3-35.1-35.1-35.1-35.1-35.1-25.3, A-Ident Number:)						
Special Features						
Special Feature		N	N	(Narrow horizontal cracks and Hangers @ North) 23-June- 2010		
(Type : UNDERSLUNG DIAPHR)						
Hinge		X	X			
(Hinge Type : PIN HANGER)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface		5	5	Transverse cracks up to 1 mm wide & 0.5m apart; longitudinal cracks down cl & also along middle of each lane. Isolated minor spalls. Wide crack at curb exteriors. Only seen from banks Some cracks sealed with epoxy & sand mortar @ deck		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top		X	X			
Deck Rideability		7	7			
Deck Joints		3	3	90 mm South hanger 80 mm South abut.		
Temperature (deg. C)		-5				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
100		N. abut				
81		N. Hanger				
Deck Drainage		7	7	Downpipe coating is 10% superficially corroded.		
Drains Clogged (Y/N)		No				
Curbs/Median		5	4	Minor light scaling. Shrinkage and flexural cracks every .7m ISOLATED VERT. CRACKS & SPALLS with exposed rebar at West curb.		
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail		5	5	10% of posts have wide cracks or spalls		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4	4	One with surface corrosion at North hanger joint at East and at South abutment at East		
(Type : CONCRETE;CONCRETE)						
Bridge Rail/Posts Coating		5	5			
(Type : GALVANIZED)						
Sidewalk		X	X			
Girders		N	N	Some portions of hairline vertical crack are @ angles of shear crack.		
Diaphragms/Cross Frame		5	5			
Bearings		6	5	Minor surface superficial corrosion. Rollers @ abuts, rockers @ P1, P3, P5, P7. Fxd @ P2, P4, P6. Roller bearings-rockers tilted 10 deg @ pier #7 & pier #1. Roller bearing skewed 3-5 degrees at North abutment at West.		
Temperature (deg. C)		-5				
(Expansion Type : ROLLER BEARING;ROCKER BEARING)						
(Fixed Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside		N	N	Only end 4 spans seen up close. Isolated cracks leaching.		
Stains (Percent Area)		5				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 8 Spans, Lengths(m): 25.3-35.1-35.1-35.1-35.1-35.1-25.3, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	General rating carried forward.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		6	6	
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				(Medium scaling on tops of center 3 piers. EST. 3 mm CRACK @ P4 W) 23- June-2010. Cannot confirm due to poor visibility.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Pier Shaft/Piles		5	5	
Nose Plate		5	5	
Paint/Coating		4	4	75% superficial corrosion on nose plate's.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	(Piers in water have localized scour, 1 to 2 m wide at u/s end. Water appears dark at these areas) 23- June-2010 Water too deep to accurately see scour
Debris (Y/N)	No			
Substructure General Rating		5	5	
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)	6.0			Estimate from drift on north slope.
Drift (Y/N)	No			
Slope Protection		6	6	Some concrete bags along headslopes - sparse.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	2012	Install bolts @ Abuts- 6					
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							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	49.5/49.5	Est. Repl. Yr	2024	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	10-Sep-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							