

Bridge Inspection										
Bridge File Number	77816 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1975/1975				Lot No.	4				
Bridge or Town Name	BEAVER MINES				Inspector Name	Garry Roberts				
Located Over	CASTLE RIVER, 2.12.35, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	774:02 C1 11.201				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	27-Nov-2012				
Legal Land Location	NE SEC 16 TWP 5 RGE 3 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:20:26, 49:23:25				Data Entry Date	01-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA26				Review Date	05-Dec-2012				
Clear Roadway/Skew	8.7 / 20 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	160 / 2011 (A)				Dept. Review Date	08-Jan-2013				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> 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)		In Advance (Y/N)				At Bridge (Y/N)	
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)				At Bridge (Y/N)	
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone	East ROW.				Gas					
Power	West 10 m single wire.				Municipal					
Others	Alta survey marker at SW corner.				Problem (Y/N)		No			
Remarks										

Approach Road										
		Last	Now	Explanation of Condition						
Horizontal Alignment		6	6	Gravel at south -ACP at North. Now ACP transition paving at both ends.						
Vertical Alignment		7	7							
Roadway Width (m)	9.000				New approach rails and posts.					
Approach Bump			5	8						
Guardrail (Y/N)	Yes				Not thriebeam.					
Guardrail			6	8						
Length (m)	30.000				Not thriebeam.					
Current Standard (Y/N)	No									
Termination Type	TURNED DOWN									
Drainage			7	7						
Approach Road General Rating				6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 16.8-16.8-16.8, 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	10	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			3	8	New ACP.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	8	
Deck Joints			3	N	Paved over with sealed saw-cuts.
Temperature (deg. C)					
(Expansion Type : WATER STOP)					
(Fixed Type : WATER STOP)					
Gap Size (mm)		Gap Location			
Deck Drainage			3	6	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	15 A/B nuts at East rail and 9 at West rail with insufficient thread. Scrapes @ West. Minor corrosion.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		4	4		
(Type : GALVANIZED)					
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			5	5	Longitudinal cracking on bottom of girders approx centerline of girder. - 0.3 to 0.4 mm wide Efflorescence from grout key leakage at Sp.2-G1.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 24)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	Neoprene pads.
Temperature (deg. C)	-6			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Leakage between girders @ pier #1 @ East side @ center span & @ North span @ center.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	X	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		4	4	Leakage & staining on caps from previous deck joints above. Abrasion has taken paint off. Pitting corrosion @ bottom 2m of South pier.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		6	6	Steep cut banks @ SE.
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	South slope class 2 & 3. Some Class 3 @ North.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	60.2/61.4	Est. Repl. Yr	2035	Maint. Req. (Y/N)	No
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	27-Feb-2016		Previous Inspection Date	11-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							