

Bridge Inspection									
Bridge File Number	07244 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1969/1969				Lot No.	1			
Bridge or Town Name	MEETING CK				Inspector Name	Jason Saly			
Located Over	MEETING CREEK, 5.31, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	56:16 C1 11.934				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	13-Feb-2013			
Legal Land Location	NE SEC 5 TWP 43 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:42:57, 52:40:51				Data Entry Date	18-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA20				Review Date	26-Feb-2013			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Chris Black			
AADT/Year	1,150 / 2011 (A)				Dept. Review Date	28-Mar-2013			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	120m North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Gradual curve through valley with A210 intersection 200m North. No passing.				
Vertical Alignment			6	6					
Roadway Width (m)	12.000				Insufficient posts & length. 30.4m @ SE, NW. 23m @ SW, NE.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	23.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			3	3	(Large erosion hole @ SE - photo. Minor erosion at NW corner. 09May2011) - Snow covered; rating carried forward.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 10.1-10.1-10.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered along gutters.
Last	0	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface		6	5	Cracks along girder edges. 6 lines/span. Leaking/icing btwn S2G11/G12 & S2G12/G13 @ S pier.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		X	X		
Bump (Y/N)		No			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	(E curb span 3 cracked/spalled with water getting in void top of curb. Delam grout in curb lift pocket, typical. 09May2011). Only span, W curb visible; rating carried forward.	
(Curb Type : Standard)					
Scaling (Percent Area)	5				
Bridge Rail		4	4	Single layer. Splice between posts. Missing 8 flexbeam splice bolts. (4 ea rail, S2) 5% post A/B nuts have insufficient thread anchorage. (50% anchor bolt washers undersized. 09May2011).	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(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		4	4	Typical longit. cracking in AZ multiple girders, anchorage looks ok. S1G10 have punchout/hole through deck but covered by deck O/L. Cracks through overlay along girder edges so connectors are suspect. Narrow flexural cracks along the girders. (NW pocket open on curb. 09May2011).	
Last Complete Inspection Date		09-May-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 39)					
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						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			5	5	Steel caps do not have stiffener over piles. Stiffeners are offset from piles.	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls			4	5	Bottom of SE backwall planks exposed by erosion, fill loss.	
Greatest Height (m)		1.20				
Wingwalls			7	7	Extended backwall.	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	18	0	0	0		
Now	18	0	0	0		
Piles			N	N	Mostly buried.	
Paint/Coating			4	4	Caps & capitals rusting - no action.	
Abutment Stability			7	7		
Scour/Erosion			3	3	(SE erosion, potential to lose backwall fill. 09May2011); minor erosion NW/NE headslope.	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			5	5	Stiffeners not over piles @ several locations.	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 11:11)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles			6	4	Wide checks, N pier, piles 2,4,8,9,11 & P7 has broken band. Soft pile (P3) along S pier.	
Greatest Height (m)		4.40				
Bracing/Struts/Sheathing			4	4	Not full height, not bolted at top of piles throughout.	
Nose Plate			X	X		
Paint/Coating			4	4	Caps & capitals rusting - no action.	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Old dam @ East side; old pile in stream.
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Beaver dam removed.
Slope Protection (Type : NATURAL; NATURAL)		3	4	N & S hslp are eroded. (Both banks minor erosion under bridge due to beavers taking mud from banks. See notes abutment scour. 09May2011).
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		3	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 8 flexbeam splice bolts. Replace undersized washers at anchor bolts, if not yet done.					
SEAL CURBS	2013	Patch all lift pockets, if not yet done.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2013	Core pier piles.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Repair SE erosion and both headslope toes.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Upgrade rail to meet standard.					
OTHER ACTION	2013	Repair curb delamination with grout, remove delam concrete, if not yet done.					
OTHER ACTION	2013	Concrete drain trough, SE corner, if not yet done.					
OTHER ACTION	2013	Add bolts to pier bracing.					
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	58.4/57.7	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Bridge should be adequate until 2022. CB						
On 3-Year Program (Y/N)	Y						
Proposed Action	Minor maintenance programmed for 2009. CB Review and repair as required. RS						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	13-Nov-2014		Previous Inspection Date	09-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							